# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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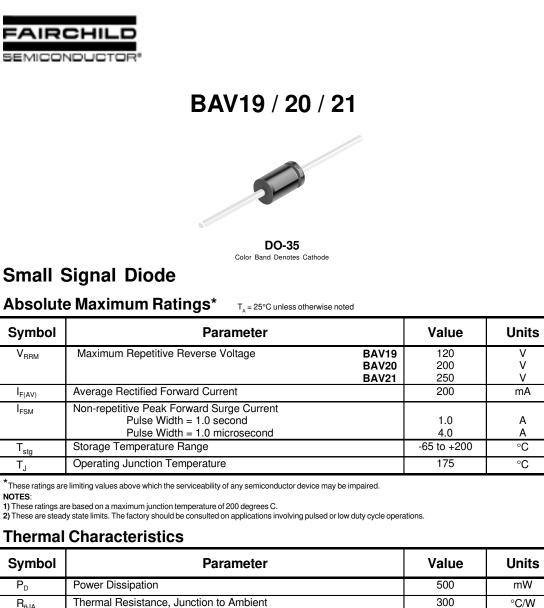
Is Now Part of



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Thermal Resistance, Junction to Ambient

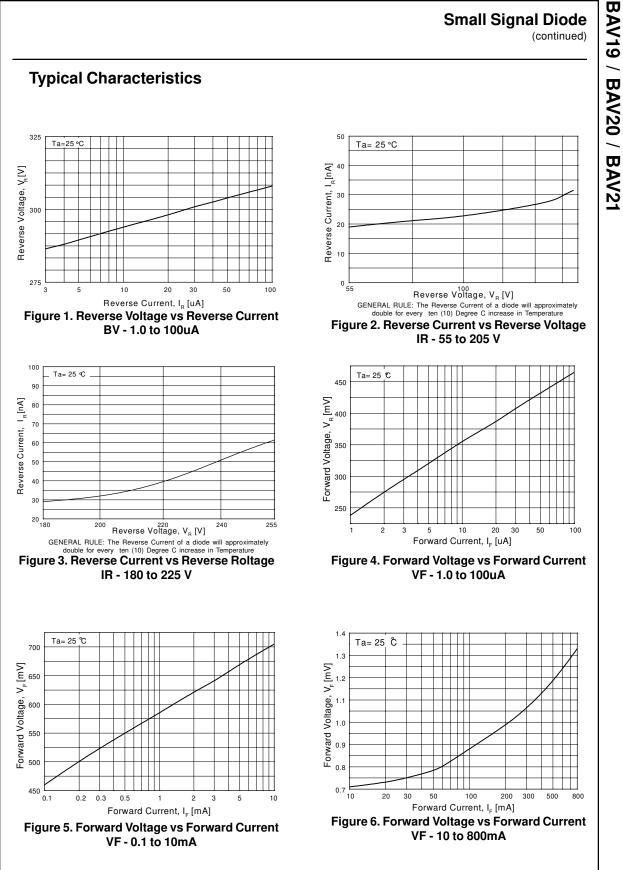
Electrical Characteristics T<sub>4</sub> = 25°C unless otherwise noted

Symbol	Parameter		Test Conditions	Min	Max	Units
V <sub>R</sub>	Breakdown Voltage	BAV19 BAV20 BAV21	I <sub>R</sub> = 100 μA I <sub>R</sub> = 100 μA I <sub>R</sub> = 100 μA	120 200 250		V V V
$V_{F}$	Forward Voltage		$I_F = 100 \text{ mA}$ $I_F = 200 \text{ mA}$		1.0 1.25	V V
I <sub>R</sub>	Reverse Current	BAV19	$V_{R} = 100 V$ $V_{R} = 100 V$ , $T_{A} = 150^{\circ}C$ $V_{R} = 150 V$		100 100 100	nA μA nA
		BAV20 BAV21	$V_{R}^{A} = 150 V, T_{A} = 150^{\circ}C$ $V_{R} = 200 V$ $V_{R} = 200 V, T_{A} = 150^{\circ}C$		100 100 100	μA nA μA
CT	Total Capacitance		$V_{\rm R} = 0, f = 1.0  \text{MHz}$		5.0	pF
t <sub>rr</sub>	Reverse Recovery Time		$I_F = I_R = 30 \text{ mA}, I_{RR} = -3.0 \text{ mA}, R_I = 100\Omega$		50	ns

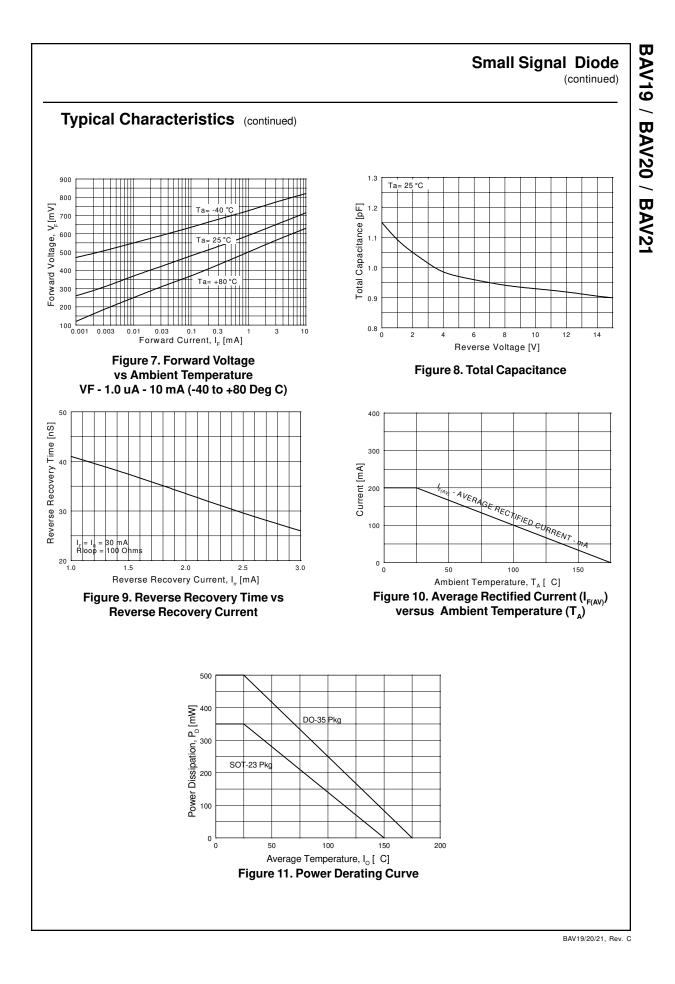
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 $R_{\theta JA}$ 

BAV19 / BAV20 / BAV21



BAV19/20/21, Rev. C



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